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Prof. Denis Coelho

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Overview Background Publications (137) Network

Biography

No biography has been shared yet.

14 December 2025 in *Journal of Manufacturing Technology Management* Journal Article

Disruption handling by first-line managers in manufacturing: the situated active engineering of resilience

JK Johan Karltun KH Karin Havemose AK Anette Karltun SK Sofia Kjellström Denis Coelho

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3 March 2023 in *Applied Ergonomics* Journal Article

The work of first line managers – A key to resilience in manufacturing

AK Anette Karltun JK Johan Karltun Denis Coelho KH Karin Havemose SK Sofia Kjellström

First-line managers (FLMs) have a vital role in developing stable output and organizational competitiveness through their ability to manage front-line operations in daily work. It is also well known that FLMs are strong determinants of good ergonomics and well-being for front-line staff. However, research focusing on how FLMs deal with their important role is lacking particularly r

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28 September 2022 in *Applied System Innovation* Journal Article

Sustainable Design and Management of Industrial Systems—A Human Factors Perspective

Denis Coelho

The aim of this concept article is to articulate multiple contributions from socio-technical fields into an approach for sustaining human-centred lifecycle management of industrial systems. Widespread digitalization and advanced robotics have fostered interest on innovative human-machine integration and sophisticated organizational transformation that is conducive to meeting the challen

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2 July 2022 in *International Journal of Environmental Research and Public Health* Journal Article

A Design Contribution to Ergonomic PC Mice Development

ML Miguel L. Lourenço RP Rui Pitarma Denis Coelho

Developing new manual computer pointing devices abiding to the requirements set out in ergonomic product design literature necessitates joining contributions from several areas, including the ergonomic guidelines applicable to hand tool design, human–system interaction, and certain user characteristics such as anthropometric data. Computer mice are hand tools enabling the interactio

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3 July 2021 Conference Paper

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7 May 2021 Book Chapter

The Benefits of Occupational Health and Safety Standards

Denis Coelho JM João C. O. Matias JF João N. O. Filipe

<!----> <!----> In this chapter, occupational health and safety is approached from the viewpoints of both Human Factors and Ergonomics and standardization, including management systems standards. This chapter focuses mainly on OHS legislation, regulations, and voluntary standards in the EU and the U.S.A., as well as management systems. Great emphasis is given to OHSAS 18001 as a spe

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7 April 2021 in *International Journal of Environmental Research and Public Health* Journal Article

Usability Evaluation of Slanted Computer Mice

ML Miguel L. Lourenço MV Maria Vieira Denis Coelho

Prevention of musculoskeletal disorders is supported by use of slanted rather than horizontal pointing devices, but user acceptance of the former may be compromised due to lower perceived ease of use. This study compares subjectively rated usability (N = 37) for three sizes of slanted computer mice and includes a horizontal small conventional device as a reference. For a random subset

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25 February 2021 in *International Journal of Occupational Safety and Ergonomics* Journal Article

Gender differences in associating musculoskeletal complaints, housework, electronic device usage and physical exercise for administrative workers

Tânia M. Lima Denis Coelho

Introduction. The study assessed musculoskeletal complaints (MSCs) in administrative workers, associating MSCs with non-paid housework, home use of electronic devices and physical exercise, while keeping a distinctive gender approach. This may promote the development of more effective preventive measures, by meeting the specific strengths and weaknesses of each gender. *Meth*

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7 February 2021 in *Sustainable Development* Journal Article

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emergence pertains to complex self-organizing systems. Emergent properties and behaviors arise only when system parts interact in a wider whole. This article positions emergence for enl Show more

29 January 2021 in *WORK: A Journal of Prevention, Assessment & Rehabilitation* Journal Article

Dynamics of forearm muscle activity in slanted computer mice use

Denis Coelho ML Miguel L. Lourenço

BACKGROUND: Static muscular activity of muscles activated in the use of the conventional PC mouse is believed to represent a higher risk for the musculoskeletal health of the user than dynamic muscular activity. OBJECTIVE: This paper presents a compounded muscular activity dynamics indicator (akin to percent relative range), enabling comparison between computer handheld pointing (Show more

2 October 2020 in *Sigurnost* Journal Article

Social, cultural and working conditions determinants of fatal and non-fatal occupational accidents in Europe

Denis Coelho

SAŽETAK: Opisane su determinante nesreća na radu s aspekta društvenih, kulturnih i radnih uvjeta, i to na razini Europe kao naroda. Podatci o nesrećama sa smrtnim i nesmrtnim posljedicama u 2014. godini koje je prikupio Eurostat...

21 July 2020 in *Preprints.org* Preprint

Emergence Aiming Innovation for Sustainability

MV Maria Vieira Denis Coelho

The nature of the sustainability crisis is characterized by high levels of complexity, thus it is not amenable to be approached from the linearity or reductionist paradigm. Emergence is a multilevel phenomenon that is characterized by qualitative novelty and is recognized as an important attribute of complex systems produced by self-organized processes, unveiled from a holistic stance. This concept Show more

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